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| APPLICATION NO. | FILING DAT | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO |
|--|-------------|----------------------|------------------------|-----------------|
| 10/009,477 | 12/11/2001 | Masahiro Imoto | 1830/50521 | 4095 |
| 23911 | 7590 01/1 | i | EXAMINER | |
| | & MORING LI | RAO, DEEPAK R | | |
| INTELLECTUAL PROPERTY GROUP P.O. BOX 14300 | | | ART UNIT | PAPER NUMBER |
| WASHINGTON, DC 20044-4300 | | | 1624 | |
| | | | DATE MAILED: 01/13/200 | 5 |

Please find below and/or attached an Office communication concerning this application or proceeding.

| | Application No. | Applicant(s) |
|---|---|---|
| | 10/009,477 | IMOTO ET AL. |
| Office Action Summary | Examiner | Art Unit |
| | Deepak Rao | 1624 |
| The MAILING DATE of this communication app | ears on the cover sheet with the c | orrespondence address |
| Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). | 36(a). In no event, however, may a reply be tim of within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONET | ety filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133). |
| Status | | |
| Responsive to communication(s) filed on 16 Section 2a) This action is FINAL. 2b) ☑ This 3) ☐ Since this application is in condition for alloware closed in accordance with the practice under Expression 2 section 2 section 2 section 3. | action is non-final. nce except for formal matters, pro | |
| Disposition of Claims | | |
| 4) ☐ Claim(s) 35,36 and 41-59 | rom consideration. | - |
| Application Papers | | |
| 9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correction of the order of the contraction is objected to by the Examine 11). | epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj | ected to. See 37 CFR 1.121(d). |
| Priority under 35 U.S.C. § 119 | | |
| 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of | s have been received. s have been received in Application rity documents have been receive u (PCT Rule 17.2(a)). | on No d in this National Stage |
| Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date | 4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa | |

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(SUPPLEMENTAL)
DETAILED ACTION

In response to applicant's telephone inquiry of December 29, 2004 regarding the last Office action, the following corrective action is taken.

The period for reply of THREE MONTHS set in said Office Action is restarted to begin with the mailing date of this letter.

A corrected copy of the last Office Action is enclosed.

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on September 16, 2004 has been entered.

Claims 35-36 and 41-59 are pending in this application.

Election/Restriction

Applicant elected the species of Compound No. 2 (page 29, Table 1). The species represents a compound of formula (I) wherein A¹ and R⁷-R¹² are hydrogen and A² is 6-chloropyrid-3-yl. The elected species was not found in the prior art and the search was expanded (as per the guidelines of MPEP § 803.02) to the compounds of formula (I) wherein X is -CH₂-CH₂-

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 CH_{2} -; A^{1} is H, phenyl, alkyl, alkyl substituted with phenyl; and A^{2} is optionally substituted phenyl and art was found.

Claim 59 and the subject matter of compounds of formula (I) other than the above indicated subgenus are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to non-elected inventions.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 35 and 41-58 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 35 recites the limitation " an optionally substituted alkyl group, excluding dichloronitromethyl" in lines 5-6. There is insufficient antecedent basis for this limitation in the claim because the substituent list for the 'alkyl group' does not include 'chloro' and 'nitro' and therefore, the above recited group "dichloronitromethyl" can not be excluded (groups that are not included in the claim can not be excluded).

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

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(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

1. Claim 35 is rejected under 35 U.S.C. 102(b) as being anticipated by CAPLUS Abstract 101:181274 (1984). The instant claim reads on reference disclosed compound, see compound having RN 92506-20-2 (depicted below for convenience):

RN 92506-20-2 CAPLUS

CN Pyrimidine, 1,4,5,6-tetrahydro-1-methyl-2-phenyl- (9CI) (CA INDEX NAME)

2. Claims 35 and 58 are rejected under 35 U.S.C. 102(b) as being anticipated by Roesner et al., U.S. Patent No. 4,156,778. The instant claims read on reference disclosed compound, see the compound 2-(3,4-diaminophenyl)-2-tetrahydropyrimidine hydrochloride (col. 7, lines 57-58) (depicted below for convenience):

CN 1,2-Benzenediamine, 4-(1,4,5,6-tetrahydro-1-methyl-2-pyrimidinyl)-, monohydrochloride

HC1

3. Claims 35, 41, 46-49 and 58 are rejected under 35 U.S.C. 102(b) as being anticipated by Brimblecombe et al., CAPLUS 72:41409 (1970). The instant claims read on reference disclosed

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compounds, see the compound disclosed in the enclosed abstract, particularly those having 2phenyl substituent (depicted below for convenience):

RN 26148-94-7 CAPLUS

CN Pyrimidine, 1-benzyl-1,4,5,6-tetrahydro-2-phenyl-, hydrochloride (8CI) (CA INDEX NAME)

♠x HC1

RN 26148-95-8 CAPLUS

CN Pyrimidine, 1,4,5,6-tetrahydro-1-phenethyl-2-phenyl-, hydrochloride (8CI) (CA INDEX NAME)

♥x HC]

RN 26148-99-2 CAPLUS

CN Pyrimidine, 1,4,5,6-tetrahydro-2-phenyl-1-(3-phenylpropyl)-, sulfate (8CI)

4. Claims 35 and 58 are rejected under 35 U.S.C. 102(b) as being anticipated by GB 1,013,441. The instant claims read on reference disclosed compounds, see the compound disclosed page 9, EXAMPLE III (depicted below for convenience):

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RN 3797-96-4 CAPLUS

CN Pyrimidine, 2-(2,6-dichlorophenyl)-1,4,5,6-tetrahydro-1-phenyl-, monohydrobromide

HBr

5. Claims 35 and 58 are rejected under 35 U.S.C. 102(b) as being anticipated by Riverdito et al., CAPLUS 115:8219 (1991). The instant claims read on reference disclosed compounds, see the compounds disclosed in the enclosed abstract (depicted below for convenience):

RN 52289-23-3 CAPLUS

CN Pyrimidine, 1,4,5,6-tetrahydro-1,2-diphenyl- (9CI) (CA INDEX NAME)

RN 52289-26-6 CAPLUS

CN Pyrimidine, 1,4,5,6-tetrahydro-1-(4-methoxyphenyl)-2-phenyl- (9CI) (CA INDEX NAME)

RN 52289-28-8 CAPLUS

CN Pyrimidine, 1,4,5,6-tetrahydro-1-(4-methylphenyl)-2-phenyl- (9CI) (CA INDEX NAME)

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RN 52289-36-8 CAPLUS

CN Pyrimidine, 1-(4-chlorophenyl)-1,4,5,6-tetrahydro-2-phenyl- (9CI) (CA INDEX NAME)

RN 52289-27-7 CAPLUS

CN Pyrimidine, 2-(4-chlorophenyl)-1,4,5,6-tetrahydro-1-phenyl- (9CI) (CA INDEX NAME)

RN 134221-87-7 CAPLUS

CN Pyrimidine, 1,4,5,6-tetrahydro-2-(4-methoxyphenyl)-1-phenyl- (9CI) (CA INDEX NAME)

Note: The above references are representative of the searched subgenus. Claim 35 is extremely broad and covers many known compounds, e.g., 1,4,5,6-tetrahydropyrimidine, which is available in Aldrich Catalog 29,333-4.

Allowable Subject Matter

Claim 36 is allowed. The references of record do not teach or fairly suggest the claimed compounds.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Deepak Rao whose telephone number is (571) 272-0672. The examiner can normally be reached on Tuesday-Friday from 6:30am to 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dr. Mukund Shah, can be reached on (571) 262-0674. If you are unable to reach Dr. Shah within a 24 hour period, please contact James O. Wilson, Acting-SPE of 1624 at (571) 272-0661. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-1600.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Deepak Rao

Primary Examine Art Unit 1624

December 29, 2004